

**ABSTRACT**

The invention provides a non-aqueous secondary battery having positive and negative electrodes and non-aqueous electrolyte containing lithium salt which has an energy capacity of 30 Wh or more, a volume energy density of 180 Wh/l or higher, which battery has a flat shape and is superior in heat radiation characteristic, used safely and particularly preferably used for a energy storage system. The invention also provides a control method of the secondary battery.